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Fake News Detection

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Overview

Fake news encapsulates pieces of news that may be hoaxes and is generally spread through social media and other online media. This is often done to further or impose certain ideas and is often achieved with political agendas. Such news items may contain false and/or exaggerated claims, and may end up being viralized by algorithms, and users may end up in a filter bubble.

By practicing this advanced python project of detecting fake news, you will easily make a difference between real and fake news.

Goals

To build a model, to accurately classify a piece of news(Dataset) as REAL or FAKE.

This advanced python project of detecting fake news deals with fake and real news. Using sklearn, we build a TfidfVectorizer on our dataset. Then, we initialize a PassiveAggressive Classifier and fit the model. In the end, the accuracy score and the confusion matrix tell us how well our model fares.

Results

The Dataset used for this project is <u>news.csv</u>, and We got an accuracy of **92.82%** with this model. So with this model, we have **589 true positives, 587 true negatives, 42 false positives, and 49 false negatives**.

CODE:- FakeNews_Project

Summary

In this project, we implemented and analysed a program to detect fake news with Python. We took a political dataset, implemented a **TfidfVectorizer**, initialized a **PassiveAggressiveClassifier**, and fit our model. We ended up obtaining an accuracy of **92.82%** in magnitude.